

**STATUS OF THE CLAIMS**

Claims 1-13 and 17-29 are examined in the present office action.

1. (Previously Presented) A method for resolving ambiguity between names and entities through generation of an information architecture comprising the steps of:

a) providing:

- i) an electronically accessible network,
- ii) service software,
- iii) a plurality of names for a given entity, and
- iv) a processor configured to perform the steps of:

- b) identifying an ambiguity within said plurality of names for said given entity;
- c) assigning at least one persistent, uniquely identified, addressable information object to each of said names;
- d) storing said at least one information object associated with each name in said electronically accessible network to generate an information architecture; and
- e) resolving said ambiguity by accessing said information architecture stored in said electronically accessible network via said service software.

2. (Original) The method of claim 1, wherein said names comprise biological names.

3. (Original) The method of claim 2, wherein said biological names comprise taxonomic names.

4. (Original) The method of claim 2, wherein said biological names comprise molecule names.

5. (Original) The method of claim 4, wherein said molecule names are selected from the group consisting of gene names and protein names.

6. (Original) The method of claim 2, wherein said biological names comprise cell names.

7. (Original) The method of claim 1, wherein a content identifier is used to address said information object.

8. (Currently Amended) The method of claim 7, wherein said content identifier is at least one of a Digital Object Identifier (DOI), a Uniform Resource Identifier (URI) or a Uniform Resource Name (URN), an Archival Resource Key (ARK), a Persistent Uniform Resource Locator (PURL), a Universal Unique Identifier (UUID), and a Life Sciences Identifier (LSID).

9. (Previously Presented) The method of claim 1, wherein said accessing of step e) is done by a third party over an electronic communication network.

10. (Previously Presented) The method of claim 1, wherein said accessing of step e) is managed by one or more resolution servers or redirection services.

11. (Previously Presented) The method of claim 7, wherein said content identifier is managed by a registration agency.

12. (Previously Presented) The method of claim 1, wherein the content of said information object comprises at least one of metadata, data, and descriptive text, said content representing at least one of a biological Name, Taxon, Nomos, Practitioner, or Exemplar.

13. (Original) The method of claim 12, wherein assignment of said content is based on phylogenetic, phenotypic, genotypic, phenetic, genomic, or polyphasic grouping of Exemplars and/or Taxa.

14-16. (Canceled)

17. (Original) A system comprising a processor and software configured to carry out the method of claim 1.

18. (Previously Presented) A method for providing taxonomic and nomenclatural services, comprising:

a) providing:

- i) biological information objects,
- ii) an electronically accessible network,
- iii) service software, and
- iv) a processor configured to perform the steps of:

b) creating persistent identifiers for said information objects;

c) making said persistent identifiers accessible in said network via said service software; and

d) routing users and applications, said routing comprising the steps of:

- i) providing a menu of multiple services comprising direct and persistent links to a record of historical and current taxonomic and nomenclatural revisions of said biological information objects;
- ii) delivering said menu of multiple services to said users via a global persistent identifier directory;
- iii) identifying an ambiguity within said historical and current taxonomic and nomenclatural revision of said biological information objects;
- iv) resolving said ambiguity by selecting a persistent identifier-based hyperlink from said global persistent identifier directory; and
- v) linking to third party resources.

19. (Previously Presented) The method of claim 18, further comprising the step of generating revenue from said link to said third party resources.

20. (Previously Presented) The method of claim 9, wherein said electronic communication network provides active regions that respond to the behavior of said third party.

21. (Previously Presented) The method of Claim 9, wherein said electronic communication network provides active regions that offer services to said third party.

22. (Previously Presented) The method of Claim 9, wherein said electronic communication network provides active regions that route said third party to information resources related to said information objects.

23. (Previously Presented) The method of Claim 22, wherein said third party information resources comprise historical and current taxonomic and nomenclatural revisions of said information objects.

24. (Previously Presented) The method of Claims 20, 21 or 22 wherein said active regions generate revenue from said third party.

25. (Previously Presented) A method for resolving ambiguity between names and entities comprising the steps of:

a) providing:

- i) an electronically accessible network,
- ii) service software,
- iii) an ambiguity comprising a first name and a second name for a given entity, each name associated with one or more objects; and
- iv) a processor configured to perform the steps of:

b) changing the objects associated with said first name and creating one or more new objects associated with said second name, said second name accessible on said network, thereby resolving said ambiguity.

26. (Previously Presented) The method of Claim 25, wherein said first and second names are taxonomic names.

27. (Previously Presented) The method of Claim 25, wherein said objects are information objects that are retrievable by persistent identifiers.

28. (Previously Presented) The method of Claim 27, wherein said persistent identifiers are Digital Object Identifiers.

29. (Previously Presented) The method of Claim 25, wherein said first and second names are synonymous or polysemous names.